Further, the parent application (now issued as US Pat No 7,206,633) recite "ventricular tachycardia" and/or "supraventricular tachycardia" in issued Claims 5, 6, 13, and 14 in the context of identifying the cardiac origin based upon an earliest arriving electrical signal. Clearly, these claims were searched and found patentable.

Beginning on page 3 of this communication, please find a status of all claims with instructions for entry pursuant to 37 CFR §1.21. Applicants' remarks regarding the claims and the Office Action begin on page 4.

Amendments To The Claims

1-5. (Canceled)

- 6. (Withdrawn) A method, comprising:
 - a) providing:
 - i) a patient implanted with a device, wherein said device comprises;
 - 1) a implantable pacemaker element; and
 - 2) a plurality of atrial and ventricular pacing leads connected to said pacemaker element, wherein said pacing leads are configured for simultaneous activation and coursing to the ventricles and atria; and
 - ii) a plurality of sensing leads connected to said pacemaker coursing to the ventricles and atria;
 - b) initiating one or more pacing bursts by said pacemaker element, wherein said ventricles and atria are simultaneously paced; and
 - c) detecting an earliest arriving electrical signal following termination of said pacing bursts.
- 7. (Withdrawn) The method of Claim 6, wherein prior to step b) a cardiac arrhythmia is detected in said patient.
- 8. (Withdrawn) The method of Claim 6, wherein said earliest arriving electrical signal is from the ventricles.
- 9. (Withdrawn) The method of Claim 6, wherein said earliest arriving electrical signal is from the atria.
- 10. (Withdrawn) The method of Claim 6, further comprising step d) defibrillating said ventricles under conditions such that normal sinus rhythm is restored.

11-26. (Canceled)

- 27. (Currently Amended) A device, comprising:
 - an implantable pacemaker further comprising an atrial lead and a ventricular lead, said atrial lead and said ventricular lead further comprising distal tip electrodes configured to deliver simultaneous antitachycardia pacing bursts and wherein said device is configured to discriminate between a supraventricular tachycardia and a ventricular tachycardia by determining if detect an earliest arriving electrical signal was detected by said atrial lead distal tip electrodes or said ventricular lead distal tip electrodes following a blanking period resulting from said pacing bursts[[;]]
 - b) an implantable cardiac defibrillator attached to said pacemaker; and
 - e) a timing device connected to said pacemaker, said timing device configured to identify the origin of an arrhythmia by determining if said earliest arriving electrical signal was detected by said atrial lead distal tip electrodes or said ventricular lead distal tip electrodes.
- 28. (Previously Presented) The device of Claim 27, wherein said pacemaker further comprises a microprocessor configured to initiate said pacing burst.
- 29. (Previously Presented) The device of Claim 27, wherein said pacemaker generates said anti-tachycardia pacing burst.
- 30. (Canceled)
- 31. (Previously Presented) The device of Claim 27, wherein said atrial lead and said ventricular lead further comprise defibrillation electrodes.
- 32. (Canceled)

- 33. (Previously Presented) The device of Claim 27, wherein said pacemaker further comprises a storage memory connected to said atrial and ventricular leads.
- 34. (Previously Presented) The device of Claim 31, wherein at least one of said defibrillation electrodes is configured to convert an abnormal heart rhythm into normal sinus rhythm.
- 35. (Previously Presented) The device of Claim 27, wherein said atrial lead and said ventricular lead are quadripolar.
- 36. (Previously Presented) The method of claim 27, wherein said atrial lead and said ventricular lead further comprise separate conductors.

37. (Currently Amended) A device, comprising:

- an implantable pacemaker further comprising at least one atrial lead and at least one ventricular lead, said at least one atrial lead and said at least one ventricular lead further comprising distal tip electrodes configured to deliver simultaneous anti-tachycardia pacing bursts and wherein said device is configured to discriminate between a supraventricular tachycardia and a ventricular tachycardia by determining if detect an earliest arriving electrical signal was detected by said atrial lead distal tip electrodes or said ventricular lead distal tip electrodes following a blanking period resulting from said pacing bursts[[;]]
- b) an implantable cardiac defibrillator attached to said pacemaker; and
- e)— a timing device connected to said pacemaker, said timing device configured to identify the origin of an arrhythmia by determining if said earliest arriving electrical signal was detected by said at least one atrial lead distal tip electrode or said at least one ventricular lead distal tip electrode.

- 38. (Previously Presented) The device of Claim 37, wherein said pacemaker further comprises a microprocessor configured to initiate said pacing burst.
- 39. (Previously Presented) The device of Claim 37, wherein said pacemaker generates said anti-tachycardia pacing burst.
- 40. (Previously Presented) The device of Claim 37, wherein said at least one atrial lead and said at least one ventricular lead further comprise defibrillation electrodes.
- 41. (Previously Presented) The device of Claim 37, wherein said pacemaker further comprises a storage memory connected to said atrial and ventricular leads.
- 42. (Canceled)
- 43. (Previously Presented) The device of Claim 37, wherein said at least one atrial lead and said at least one ventricular lead are quadripolar.
- 44. (Previously Presented) The method of claim 37, wherein said at least one atrial lead and said at least one ventricular lead further comprise separate conductors.